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DU PONT E I NEMOURS & CO CHEMICALS & PIGMENTS DEPT -- SUVA 134A -- 6830-01-370-6207

========= Product Identification ============

Product ID:SUVA 134A MSDS Date:03/23/1999

FSC:6830

NIIN:01-370-6207 Status Code:A

MSDS Number: CKSCP === Responsible Party ===

Company Name: DU PONT E I NEMOURS & CO CHEMICALS & PIGMENTS DEPT

Address:1007 MARKET ST

City:WILMINGTON

State:DE ZIP:19898 Country:US

Info Phone Num:800-4

41-7515

Emergency Phone Num:(800)424-9300 Resp. Party Other MSDS Num.:DU000693 Preparer's Name:MSDS COORDINATOR Chemtrec Ind/Phone:(800)424-9300

CAGE:23037

=== Contractor Identification ===

Company Name: DU PONT E I NEMOURS & CO CHEMICALS & PIGMENTS DEPT

Address:1007 MARKET ST Box:City:WILMINGTON

State:DE ZIP:19898 Country:US

Phone:800-441-7515

CAGE:23037

Company Name: DU PONT FLUOROPRODUCTS

Address:1007 MARKET STREET

Box:City:WILMINGTON

State:DE ZIP:19898 Country:US

Phone:1-800-441-7515

Contract

Num:SP0450-00-M-SG78 CAGE:2S827

======= Composition/Information on Ingredients ========

Ingred Name: ETHANE, 1,1,1,2-TETRAFLUORO-

CAS:811-97-2 = Wt:100.

Other REC Limits:1000 PPM, 8 & 12 HR

OSHA PEL:NONE ESTABLISHED ACGIH TLV:NONE ESTABLISHED

========= Hazards Identification ==============

Reports of Carcinogenicity:NTP:UNKNOWN IARC:NO OSHA:NO Health Hazards Acute and Chronic:INHALATION: ETHANE,

1,1,1,2-TETRAFLUORO-GROSS OVEREXPOSURE MAY CAUSE: CENTR AL NERVOUS

SYSTEM DEPRSSION WITH DIZZINESS, CONFUSION, INCOORDINATION, DROWSINESS OR UNCONSCIOUSNESS. IRREGULAR HEART BEAT WITH A STRANGE SENSATION IN THE CHEST, HEART THUMPING, APPREHENSION, LIGHTHEADEDNESS, FEELING OF FAINTING, DIZZINESS, WEAKNESS, SOMETIMES PROGRESSING TO LOSS OF CONSCIOUNESS AND DEATH. SUFFOCATION, IF A IR IS DISPLACED BY VAPORS. SKIN: IMMEDIATE EFFECTS OF OVEREXPOSURE MAY INCLUDE: FROSTBITE, IF LIQUID OR ESCAPING VAPOR CONTACTS THE SKIN. EYE

: FROSTBITE-LIKE EFFECTS MAY

OCCUR IF THE LIQUID OR ESCAPIN G VAPORS CONTACT THE SKIN.

Explanation of Carcinogenicity:NONE OF THE COMPONENTS PRESENT IN THIS MATERIAL AT CONCENTRATIONS EQUAL TO OR GREATER THAN 0.1% ARE LISTED BY IARC, NPT, OSHA OR ACGIH AS A CARCINOGEN.

Effects of Overexposure:INHALATION: ETHANE, 1,1,1,2-TETRAFLUORO-GROSS OVEREXPOSURE MAY CAUSE: CENTRAL NERVOUS SYSTEM DEPRSSION WITH DIZZINESS, CONFUSION, INCOORDINATION, DROWSINESS OR UNCONSCIOUSNESS. IRREG

ULAR HEART BEAT WI TH A STRANGE SENSATION IN
THE CHEST, HEART THUMPING, APPREHENSION, LIGHTHEADEDNESS, FEELING
OF FAINTING, DIZZINESS, WEAKNESS, SOMETIMES PROGRESSING TO LOSS OF
CONSCIOUNESS AND DEATH. SUFFOCATION, IF A IR IS DISPLACED BY
VAPORS. SKIN: IMMEDIATE EFFECTS OF OVEREXPOSURE MAY INCLUDE:
FROSTBITE, IF LIQUID OR ESCAPING VAPOR CONTACTS THE SKIN. EYE:
FROSTBITE-LIKE EFFECTS MAY OCCUR IF THE LIQUID OR ESCAPIN G VAPORS
CONTACT THE EYES.

Medical Cond Aggravated

by Exposure:INCREASED SUSCEPTIBILITY TO EFFECTS OF MATERIAL MAY BE OBSERVED IN PERSONS WITH PRE-EXISTING DISEASE OF CENTRAL NERVOUS SYSTEM & CARDIOVASCULAR SYSTEM.
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First Aid:INHALATION: IF HIGH CONCENTARATIONS INHALED, IMMEDIATELY REMOVE TO FRESH AIR. KEEP PERSON CLAM. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULT, GIVE OXYGEN. CALL PHYSICIAN. SKI N: IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH
PLENTY WATER FOR AT LEAST 15 MINUTES, WHILE REMOVING CONTAMINATED CLOTHING & SHOES. CALL PHYSICIAN. WASH CONTAMINATED CLOTHING BEFORE REUSE. TREAT FOR FROSTBITE IF NECESSARY BY GENTLY WARMING AFFECTED AREA. EYE: IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL PHYSICIAN. INGESTION: INGESTION IS NOT A POTIENTIAL ROUTE OF EXPOSURE.
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Flash Poi nt:WILL NOT BURN Lower Limits:NA Upper Limits:NA Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING MATERIAL. COOL TANK/CONTAINER WITH WATER SPRAY. Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS MAY BE REQUIRED IF CYLINDERS RUPTURE OR RELEASE UNDER FIRE CONDITIONS. Unusual Fire/Explosion Hazard:NOT FLAMMABLE UP TO 100C AT ATMOSPHERIC PRESSURE BUT MIXTURES WITH HIGH CONCENTRATIONS OF AIR AT ELEVATED PRESSURE CAN BECOME COMBUSTIBLE AT AMBIENT TEMP. AS TEMPERATUR E OF MATERIAL IS INCREASED LOWER PRESSURE (>ATMOSPHERIC) CAN CREATE SAME EFFECT. DO NOT MIX WITH HIGH CONCENTRATIONS OF AIR ABOVE ATMOSPHERIC PRESSURE.
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Handling and Storage Precautions:USE WITH SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPOSURE BELOW RECOMMENDED LIMITS. HFC-134A SHOULD NOT BE MIXED WITH AIR FOR LEAK TESTING OR USED FOR ANY OTHER PURPOSE ABOVE ATMOSPHERIC PRESSURE. SE E FLAMMABLE PROPERTIES SECTION. STORE IN A CLEAN, DRY PALCE. DO NOT HEAT ABOVE 52C (126 F).

Other Precautions: AVOID CONTACT WITH CHLORINE OR OTHER STRONG OXIDIZING AGENTS SHOULD BE AVOIDED.

====== Exposure Controls/Personal Protection ========

Respiratory Protection:UNDER NORMAL MANUFACTURING CONDITIONS, NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT. SELF-CONTAINED BREATHING APPATATUS (SCBA) IS REQUIRED IF A LARGE RELEASE OCCURS.

Ventilation:NORMAL VENTILATION FOR STANDARD MANUFACTURING PROCEDURES IS GENERALLY ADEQUATE. LOCAL EXHAUST SHOULD BE USED WHEN LARGE AMOUNTS ARE RELEASED.

Protective Gloves: IMPERVIOUS

Eye Protection: CHEMICAL SPLASH GOGGLES.

Other Prote

ctive Equipment:NOT PROVIDED

Work Hygienic Practices: NOT PROVIDED

Supplemental Safety and Health

======== Physical/Chemical Properties ==========

HCC:G3

Boiling Pt:=-26.5C, -15.7F Vapor Pres:96 PSIA @ 25C

Vapor Density:3.6

Spec Gravity:1.208 @ 77F

Evaporation Rate & Evaporation R

Solubility in Water: 0.15 WT% @ 25C

Appearance and Odor: COLORLESS, LIQUIFIED GAS, SLIGHT ETHER ODOR.

Percent Volatiles by Volume:100

========= Stability and Reactivity Data ==

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Stability Indicator/Materials to Avoid:YES

POSSIBLY CARBONYL FLUORIDE.

INCOMPATIBLE WITH ALKALI OR ALKALINE EARTH METALS-POWDERED AL. ZN, BE, ETC.

Stability Condition to Avoid:AVOID OPEN FLAMES AND HIGH TEMPERATURES.
Hazardous Decomposition Products:DECOMPOSITION PRODUCTS ARE HAZARDOUS.
THIS MATERIAL CAN BE DECOMPSED BY HITH TEMPERATURES (OPEN FLAMES, GLOWING METAL SURFACES, ETC.) FORMING HYDROFLUORIC ACID AND

Conditions to Avoid Polymerization: WILL NOT OCCUR.

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======== Toxicological Information ==========
Toxicological Information:SHORT DURATION OF VAPOR SPRAY PRODUCED VERY SLIGHT EYE IRRITATION. ANIMAL TESTING INDICATES MATERIAL IS SLIGHT SKIN IRRITANT BUT NOT SKIN SENSITIZER. INHALATION: 4 HR, ALC, RAT: 567000 PPM. SINGLE EXP OSURE CAUSED CARDIAC SENSITIZATION, A POTENTIALLY FATAL DISTURBANCE OF HEART RHYTHM ASSOCIATED WITH HEIGHTENED SENSITIVITY TO ACTION OF EPINEPHRINE. LOWEST OBSERVED ADVERSE EFFECT LE
VEL FOR CARDIAC SE NSITIZATION: 75000 PPM. SINGLE EXPOSURE CAUSED LETHARGY, NARCOSIS, INCREASED RESPIRATORY RATES (TEMPORARY EFFECTS). SINGLE DOSE TO NEAR LETHAL DOSE: PULMONARY EDEMA. CONTINUED IN OTHER INFORMATION FIE LD.
========= Ecological Information ===========
Ecological:AQUATIC TOXICITY: 48 HR EC50 - DAPHNIA MAGNA: 980 MG/L; 96 HR LC50 - RAINBOW TROUT: 450 MG/L.
======= Disposal Considerations ==========
Waste Disposal Methods:CONTAMINATED HFC-134A CAN BE RECOVERED BY DISTILLATION OR REMOVED TO A PERMITTED WASTE DISPOSAL FACILITY. COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
========= MSDS Transport Information ==========
Transport Information:DOT INFORMATION: 1,1,1,2-TETRAFLUOROETHANE, 2.2, UN NO 3159, NONFLAMMABLE GAS LABEL.
============= Regulatory Information ===============
SARA Title III Information:SARA SECTION 311/312 CLASSES: ACUTE,

IC, PRESSURE. NOT ON SARA EHS, CERCLA HAZARDOUS SUBSTANCE, SARA TOXIC CHEMICAL LISTS.

Federal Regulatory Information:INCLUDED IN TSCA INVENTORY. State Regulatory Information:NOT PROVIDED

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